

I. Choose the correct answer:

15x1=15

- A _____ is a comparison of two quantities by division.
a. Ratio b. Proportion c. Fraction
- Order of the terms in a ratio cannot be _____.
a. same b. forwarded c. Reversed
- The line has _____ end point.
a. one b. no c. two
- The complement of 20° is _____.
a. 70° b. 90° c. 0°
- _____ lines never meet each other.
a. perpendicular b. parallel c. intersecting
- An angle whose measure is exactly 90° is called _____.
a. Right angle b. Acute angle c. Obtuse angle
- Ratio of ₹ 3 to ₹ 5 = _____.
a. 3.5 b. 3:5 c. 3 and 5
- $4:5 = \text{_____} :10$. a. 8 b. 5 c. 6
- An equivalent ratio of 4:7 is _____.
a. 1:3 b. 12:21 c. 14:8
- If a doll costs ₹ 50, then the cost of 3 such doll is ₹ _____.
a. 180 b. 150 c. 100
- An angle whose measure is above 180° is called _____ angle.
a. Acute b. Obtuse c. Reflex
- The ray has _____ end point.
a. one b. two c. no

13. The two quantities of a ratio should be in the _____ unit.

- a. Different b. Same c. proportion

14. When three or more lines pass through the same point, they said to be _____.

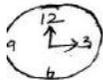
- a. Concurrent b. Intersect c. Parallel

15. We measure angle using _____.

- a. Compass b. Divider c. Protractor

II. Match the following:

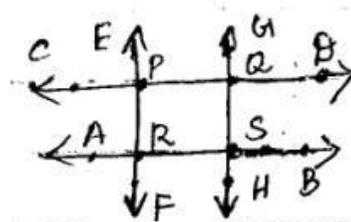
6x1=6

- | | | |
|---|---|------------------|
| 16. Product of extremes | - | Proportion |
| 17. Two ratios are equal | - | Straight angle |
| 18. Exactly 180° | - | Product of means |
| 19. Greater than 90° | - | Right angle |
| 20. 200:300 | - | Obtuse angle |
| 21.  | - | 2:3 |

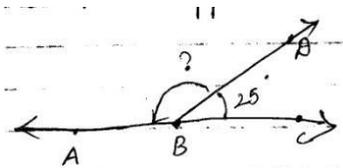
III. Answer any seven of the following:

7x3=21

- Find the simplified form of the following ratios. 15:20
- Give two equivalent ratios for the following . 1:4
- Write the means and extreme term in the following ratios.
78 liters is to 130 liters and 12 bottles is to 20 bottles.
- Using the numbers 3, 9, 4, 12 write two ratios that are in proportion
- From the given figure identify the parallel lines



27. Find the supplementary angles in the case.



28. Find the complementary angle of 85° .

29. Draw any 3 lines to have a point of concurrency.

30. Ami made 54 runs in 9 overs and Asif made 77 runs in 11 overs. Whose run rate is better?

(run rate = ratio of runs to overs)

IV. Answer any four of the following: 4x5=20

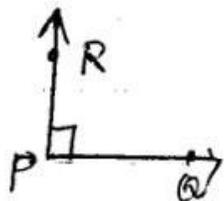
31. Out of 60 students in a class 20 are boy. Find the ratio of

- i. Number of boys to the number of girls
- ii. Number of girls to the total number of students.
- iii. Number of boys to the total number of students.

32. Team A wins 26 Matches out of 52 matches. Team B wins three fourth of 52 matches played. Which team has a better winning record?

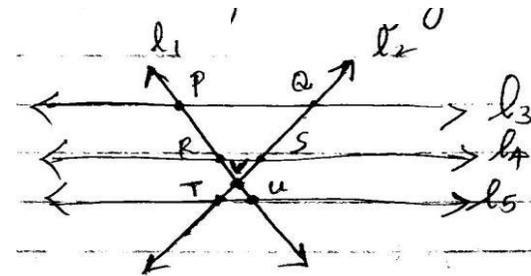
33. a. Draw any line and mark any 3 points that are collinear.

b. Write the angle, Vertex and sides



34. Give two angles are supplementary and one angle is 20° more than other.

35. From the given figures name.



- i. All pairs of parallel lines
- ii. All pairs of intersecting lines.
- iii. Point of intersection of the line ' l_1 ' and ' l_5 '

V. Geometry: - 1x8=8

36. a. Draw an angle $\angle ABC = 70^\circ$ and write its construction.

(Or)

b. Draw a line segment $AB = 6$ cm and write its construction.

VI. FBT. (10)

37. Draw a picture using (Parallel, intersecting and perpendicular lines)

38. Write the ratio of shaded portion.

